

ON THE COVER: Pd concave nanocubes with sharp edges and tailored surface plasmon resonance. For more information, see "Controlled Synthesis of Palladium Concave Nanocubes with Sub-10-Nanometer Edges and Corners for Tunable Plasmonic Property" by Wenxin Niu, Weiqing Zhang, Shaik Firdoz, and Xianmao Lu* (*Chem. Mater.* **2014**, *26*, 2180–2186).

Editorial

1983

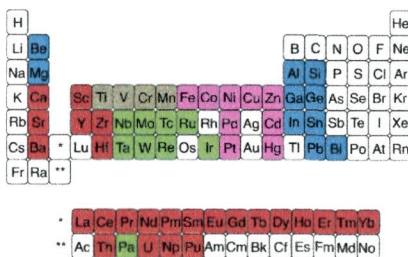
[dx.doi.org/10.1021/cm5008526](https://doi.org/10.1021/cm5008526)
Just Accepted, Most Read, and New Faces

Jillian M. Buriak*

Articles

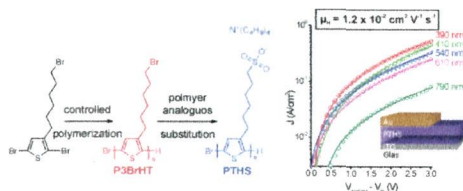
 1985 S
[dx.doi.org/10.1021/cm403727z](https://doi.org/10.1021/cm403727z)
Dissolving the Periodic Table in Cubic Zirconia: Data Mining to Discover Chemical Trends

Bryce Meredig and C. Wolverton*



 1992 S
[dx.doi.org/10.1021/cm500500t](https://doi.org/10.1021/cm500500t)
Controlled Synthesis of Water-Soluble Conjugated Polyelectrolytes Leading to Excellent Hole Transport Mobility

Johannes C. Brendel, Martina M. Schmidt, Gunter Hagen, Ralf Moos, and Mukundan Thelakkat*

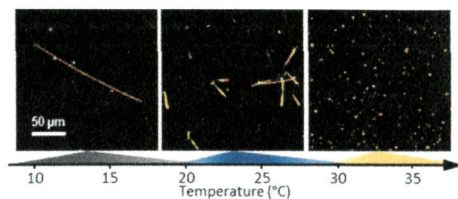


1999 **S**

dx.doi.org/10.1021/cm402506e

Synthesis and Crystal Structure of Gold Nanobelts

Courtney M. Payne, Dmitri E. Tsentelovich, Denise N. Benoit, Lindsey J. E. Anderson, Wenhua Guo, Vicki L. Colvin, Matteo Pasquali, and Jason H. Hafner*

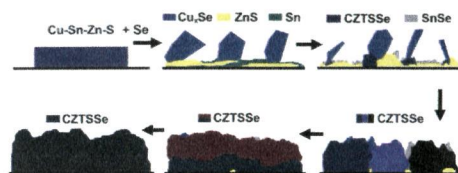


2005

dx.doi.org/10.1021/cm403423e

Study on Phase Formation Mechanism of Non- and Near-Stoichiometric Cu₂ZnSn(S,Se)₄ Film Prepared by Selenization of Cu–Sn–Zn–S Precursors

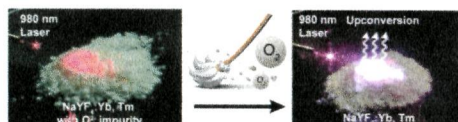
Xuesong Yin, Chunhua Tang, Linfeng Sun, Zexiang Shen, and Hao Gong*

2015 **S**

dx.doi.org/10.1021/cm403459v

Purification of NaYF₄-Based Upconversion Phosphors

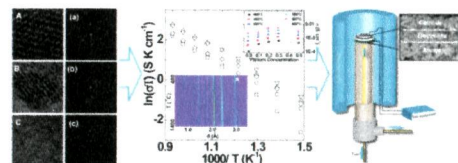
Alexander Stepuk, Gioele Casola, Christoph M. Schumacher, Karl W. Krämer, and Wendelin J. Stark*

2021 **S**

dx.doi.org/10.1021/cm403684b

Novel Chemically Stable Ba₃Ca_{1.18}Nb_{1.82-x}Y_xO_{9-δ} Proton Conductor: Improved Proton Conductivity through Tailored Cation Ordering

Siwei Wang, Yan Chen, Shumin Fang, Lingling Zhang, Ming Tang, Ke An, Kyle S. Brinkman, and Fanglin Chen*



6A

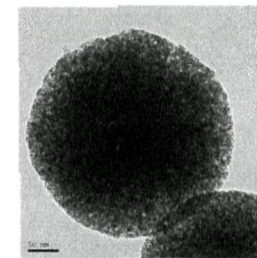
Chemistry of Materials, Volume 26, Issue 6

2030 **S**

dx.doi.org/10.1021/cm4039945

Large Pore Mesoporous Silica Nanoparticles by Templating with a Nonsurfactant Molecule, Tannic Acid

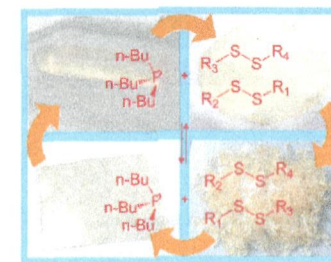
Zhe Gao and Ilya Zharov*

2038 **S**

dx.doi.org/10.1021/cm4040616

Room-Temperature Self-Healable and Remoldable Cross-linked Polymer Based on the Dynamic Exchange of Disulfide Bonds

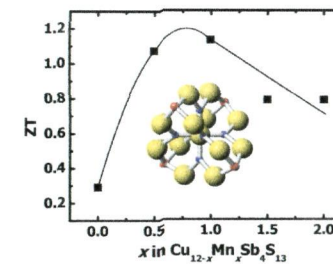
Zhou Qiao Lei, Hong Ping Xiang, Yong Jian Yuan, Min Zhi Rong,* and Ming Qiu Zhang*

2047 **S**

dx.doi.org/10.1021/cm404026k

Enhanced Thermoelectric Performance of Synthetic Tetrahedrites

Jaeseok Heo, Geneva Laurita, Sean Muir, M. A. Subramanian, and Douglas A. Keszler*



7A

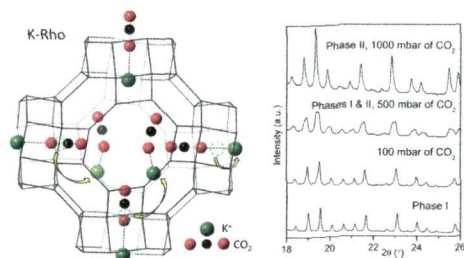
Chemistry of Materials, Volume 26, Issue 6

2052 5

dx.doi.org/10.1021/cm404028f

Cation Gating and Relocation during the Highly Selective "Trapdoor" Adsorption of CO₂ on Univalent Cation Forms of Zeolite Rho

Magdalena M. Lozinska, John P. S. Mowat, Paul A. Wright,* Stephen P. Thompson, Jose L. Jorda, Miguel Palomino, Susana Valencia, and Fernando Rey

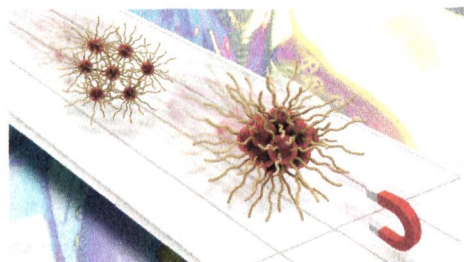


2062 5

dx.doi.org/10.1021/cm404053v

Theranostics of Epitaxially Condensed Colloidal Nanocrystal Clusters, through a Soft Biom mineralization Route

Giorgio Zoppellaro, Argiris Kolokithas-Ntoukas, Katerina Polakova, Jiri Tucek, Radek Zboril, George Loudos, Eirini Fragogeorgi, Clemens Diwoky, Katerina Tomankova, Konstantinos Avgoustakis, Dimitris Kouzoudis, and Aristides Bakandritsos*

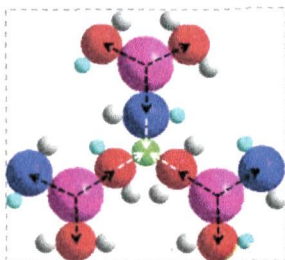


2075

dx.doi.org/10.1021/cm404058j

Chemical Pressure Control for Photoluminescence of MSiAl₂O₃N₂:Ce³⁺/Eu²⁺ (M = Sr, Ba) Oxynitride Phosphors

Wan-Yu Huang, Fumitaka Yoshimura, Kyota Ueda, Yasuo Shimomura, Hwo-Shuenn Sheu, Ting-Shan Chan, Chang-Yang Chiang, Wuzong Zhou, and Ru-Shi Liu*

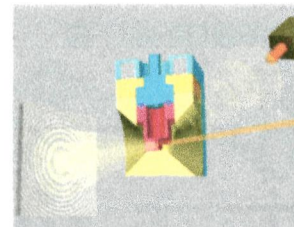


2086 5

dx.doi.org/10.1021/cm500090r

Puzzling Mechanism behind a Simple Synthesis of Cobalt and Cobalt Oxide Nanoparticles: In Situ Synchrotron X-ray Absorption and Diffraction Studies

Malwina Staniuk, Ofer Hirsch, Niklaus Kränzlin, Rahel Böhlen, Wouter van Beek, Paula M. Abdala, and Dorota Koziej*

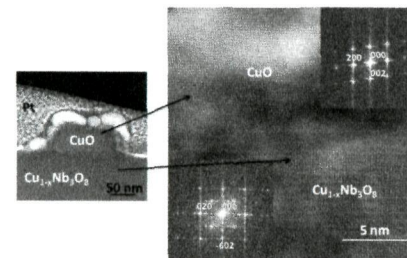


2095 5

dx.doi.org/10.1021/cm404147j

Copper Deficiency in the p-Type Semiconductor Cu_{1-x}Nb₃O₈

Nacole King, Prangya Parimita Sahoo, Lindsay Fuoco, Sean Stuart, Daniel Dougherty, Yi Liu, and Paul A. Maggard*

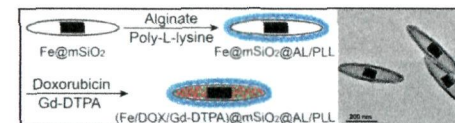


2105 5

dx.doi.org/10.1021/cm404168a

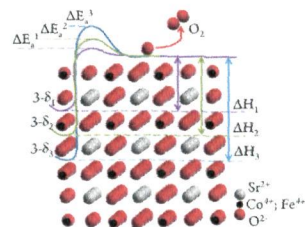
Iron-Loaded Magnetic Nanocapsules for pH-Triggered Drug Release and MRI Imaging

Hongyu Chen, Dino Sulejmanovic, Thomas Moore, Daniel C. Colvin, Bin Qi, O. Thompson Mefford, John C. Gore, Frank Alexis, Shiou-Jyh Hwu, and Jeffrey N. Anker*



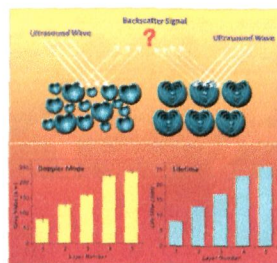
Oxygen Release from Grossly Nonstoichiometric $\text{SrCo}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ Perovskite in Isostoichiometric Mode

Ilya A. Starkov, Sergey F. Bychkov, Stanislav A. Chizhik, and Alexandr P. Nemudry*



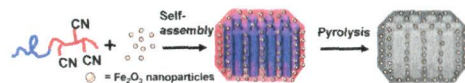
Bubble-in-Bubble Strategy for High-Quality Ultrasound Imaging with a Structure Coupling Effect

Peng Yang, Fangyuan Zhao, Jing Ding, Jia Guo, Weibin Shi, Changchun Wang,* and Xinhua Hu*



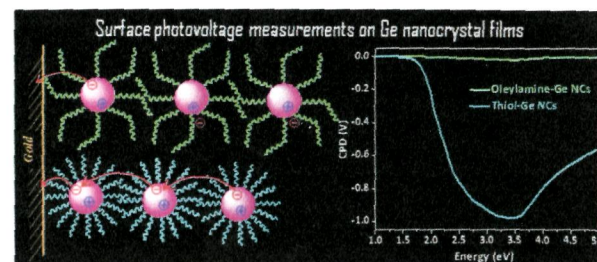
Additive-Driven Self-Assembly of Well-Ordered Mesoporous Carbon/Iron Oxide Nanoparticle Composites for Supercapacitors

Ying Lin, Xinyu Wang, Gang Qian, and James J. Watkins*



Thiol-Capped Germanium Nanocrystals: Preparation and Evidence for Quantum Size Effects

Elayaraja Muthuswamy, Jing Zhao, Katayoun Tabatabaei, Marlene M. Amador, Michael A. Holmes, Frank E. Osterloh, and Susan M. Kauzlarich*



Benzotriazole-Containing Planar Conjugated Polymers with Noncovalent Conformational Locks for Thermally Stable and Efficient Polymer Field-Effect Transistors

Seungjib Yum, Tae Kyu An, Xiaowei Wang, Wonho Lee, Mohammad Afsar Uddin, Yu Jin Kim, Thanh Luan Nguyen, Shuhao Xu, Sungu Hwang, Chan Eon Park,* and Han Young Woo*



SrAuSi_3 : A Noncentrosymmetric Superconductor

Masaaki Isobe,* Hiroyuki Yoshida, Koji Kimoto, Masao Arai, and Eiji Takayama-Muromachi

